

## METHOD AND APPARATUS FOR GENERATING MICROCONTROLLER CONFIGURATION INFORMATION

### ABSTRACT

5           A method and apparatus for configuring a microcontroller. An XML description of the microcontroller's hardware resources may be accessed. A user may select from available hardware resources and pre-defined user modules to select a configuration. Configuration information, which may include register bit patterns and microprocessor instructions, may be automatically generated. Additionally, application programming interface calls and structure, as well as interrupt vector tables may be automatically generated. Embodiments of the present invention provide improved ease of use and the ability to manage greater complexity in the configuration of configurable microcontrollers.